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ABSTRACT

Although the idea of service-learning is relatively new, the types of projects students are doing throughout the United States are quite diverse. The goals of this publication are to encourage environmental service in solid and hazardous waste areas, link these experiences to positive behavioral changes such as waste prevention and recycling, and demonstrate how the skills that students acquire can be a stepping stone to an environmental career. This booklet contains profiles of service-learning projects that focus on various aspects of safe solid waste management such as reducing household hazardous waste and buying recycled-content products. The profiles are organized by grade level into two categories: school-based and community programs. Projects include raising community awareness about recycled-content products, running community recycling programs, researching and solving landfill problems, producing educational videos, setting up and tending compost sites, and educating the community about proper disposal of hazardous materials. Each profile features contacts that can provide information on how to start a similar program in your area. Additional resources, including grants that can help to get a project started, are listed in the resource section at the back of the booklet. (PVD)



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The goals of this publication are to:

- in solid and hazardous waste areas. Encourage environmental service
- behavioral changes, such as waste · Link these experiences to positive prevention and recycling
- students acquire can be a stepping stone to an environmental career. Demonstrate how the skills that

Making a Difference: Service-Learning as a Solid Waste **Education Experience**



very day we make choices that not only affect our indias well. By choosing to participate in an environmental vidual lives, but often impact our natural environment service-learning project, you can make a difference ooth in your own future and the future of our planet.

nvolved in helping others, with an emphasis on the learning that Service-learning is more than just a buzzword used to describe occurs. It's an educational experience that combines academic community service and volunteerism efforts. Students get enowledge with service and personal reflection.

olete a certain number of service hours after school, while others ncorporate service-learning into their classroom activities. Some States are quite diverse. Some schools require students to com-Although the idea of service-learning is relatively new, the ypes of projects students are doing throughout the United students even undertake their

own individual service projects through com-

munity groups,

clubs, and other organizations.

health and the natural environment. The mission Agency's (EPA's) mission is to protect human responsible management of hazardous and of EPA's Office of Solid Waste is to ensure nonhazardous waste. Our goals are: The U.S. Environmental Protection

 To reduce the waste that can't be prevented. To conserve resources by preventing waste.

To ensure that all waste is properly

Waste has taken to achieve these goals is to One key initiative that EPA's Office of Solid further our education and outreach efforts through environmental service-learning.

projects, kinderservice-learning garten through variety of

recycling, and composting is through ways to learn about waste reduction, throughout the country are realizing that one of the most powerful hands-on experience. 12th-grade students

aspects of safe solid waste management, such buying recycled-content products. The proas reducing household hazardous waste and This booklet contains profiles of servicefiles are organized by grade level into two programs. Each profile includes contacts categories: school-based and community learning projects that focus on various

in your area. Additional resources, including grants that can help to get a project started, are listed in the resource section, located that can provide information on how to start a similar program in the back of the booklet.

ideas to get you started. Through hands-on service-learning expe-What you learn by making a difference in your school, communi-Whether you're starting a program in your school or looking riences, you can have a lasting effect on the world around you. for a service project to join in your local area, these are a few y, and the environment might be the education of a lifetime.





Elementary School

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High School

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Buying for the Future: Recycled-Content Products

Smyser Elementary School—Chicago, Illinois

fter visiting an environmental awareness center

Smyser Elementary School

Sherry Weinberg

Contact:

4310 North Melvina

Chicago, 11, 60634

where they learned about recycled-content products, fifth- and eighth-grade students at Smyser Elementary School in Chicago became concerned about the demand for recovered materials. To make an impact in their community, they organized a 1-year program to convince people to buy recycled-content products.

Phone: 773 534-3710

Fax: 773 534-3555

y recycled-

cery stores, suggesting strategies to increase the visibility of their recycledshould buy recycled-content products and distributed them door-to-door recycled-content products under a special sign. They also wrote to manuregarding recycled-content products. Another group contacted local groclasses presented their project findings along with useful items they made from waste, including vases made from cereal boxes, picture frames made nonrecycled-content products, such as napkins, paper towels, and tissues. One group performed quality comparison tests on recycled-content and survey shoppers at a local grocery store about their habits and attitudes coupons to their customers. During a local environmental festival, both in the community. Parent volunteers helped another group of students The students divided into groups and developed individual projects. content products, such as clearly labeling products and consolidating facturers of recycled-content products, suggesting they offer product Another group of students designed flyers that detailed why people from scrap cloth, and robots made with soda cans. Through participation in the project, students gained a better understanding of how change is created through government, private companies, and the community. "The program made an impact on the community, making them more aware of how and why they should purchase recycled products," said Sherry Weinberg, Smyser Elementary School teacher.



Cultural Quilt Recovers the Past

Taos Elementary School—Taos, New Mexico

hird-grade students in Taos, New Mexico, learned the importance of the "three R's"—reduce, reuse, recycle—through a

variety of one-time service-learning projects.

To begin, the students surveyed and analyzed how much trash they generate at home over a 2-week period—counting the number of things they threw away and learning what could and could not be recycled. As a next step, they took a series field trips to the county landfill and the town's recycling center to learn what happens to recyclables and other waste once it leaves the curb. The students also worked with Earth Mothers of Invention (EMI), a local textile recycling company that produces quilts, shopping bags,

Kathleen Woodall
Taos Elementary School
310 Camino de la Tlacita
Taos, NM 87571
Phone: 505 751-3841
Fax: 505 758-5298

and other products

from recovered fabrics. Through a workshop, EMI taught them how to make products from discarded textiles. The students then made their own "story cloths"—special quilts that illustrate the stories and traditions of other cultures through different shapes, colors, and textile designs.

Along the way, the students put their math, language arts, and science skills to the test. To demonstrate what they learned, they wrote letters to the town's public officials or helped start a recycling program at the school.



တ





recycling program, students with funcpublished a monthly newsletter for Hopkins tional mental disabilities (FMD) in kindergarten through third grade developed and

Hopkins Primary School Somerset, KY 42503 Phone: 606 678-3062 210 May Street Wanda Owens **Contact**:

design letterhead, input articles, and format text for their publication. touch screen for those unable to use a mouse-to The students used computers—including a

Primary School in Somerset, Kentucky.

to recycle in the community and in school. Students also toured a local parachute recycling cen-The newsletter detailed recycling drives and explained the need gram, and assisted in organizing the handicapped employees. "The recycling calculated printing needs for the newsletter and recycling collection and pickup. At distributed it to the community, posted signs advertising their recycling proter staffed by mentally and physically the end of the project, students

would like to visit the recycling center again, This 1-year program initiated relationships and work there one day."

project was fun-everything is cleaner when

you recycle," said one student participant. "I

between the special education students and students

from other classes in the school. "The program proved very educational for the special education students," said

Wanda Owens, FMD teacher. "They achieved valuable communication, math, and computer skills and learned about conservation and environmental responsibility."



Students Become Teachers

Smyrna Primary School—Smyrna, Tennessee

Smyrna,

Tennessee,

ourth-graders in

Contact:

participation in the school's existing program. worked with preschool children and their parents to increase awareness of recycling and

Smyrna Primary School Smyrna, TN 37167 Phone: 615 459-3161 Fax: 615 355-5609 Carla Sartin P.O. Box 305

materials and taught them to clean their bottles and cans before bringing importance of recycling and how to recycle, which they presented to the how to make toys and games from recyclables. "The preschool children the recycling awareness award at our academic celebrations," said Carla became so involved in the recycling program that their class often won involved in recycling. The older students also taught the preschoolers clables. They helped the younger children collect, sort, and count the preschoolers' families, and designed a booklet on how to get others them into the school. The fourth-graders planned a lesson on the Sartin, a special education teacher at Smyrna Primary. students set up recycling bins in the preschool classroom and encouraged the children to bring in recy-To familiarize preschoolers with the program,

Through this 1-year project, families became aware of the need to recycle and the preschool chil-

closely with their parents to share addition, students became teachdren developed color identificaand apply their new knowledge. ers in their homes, working tion and counting skills. In



Students Make a Litter Difference

Westhill Elementary School—Bessemer, Alabama

aced with litter and recycling challenges, as well as a need for more students to be involved in community projects, fifth-grade students and teachers from Westhill Elementary School in Bessemer, Alabama, created the Bessemer Recycling Program.

Westhill Elementary School Bessemer, AL 35023 Phone: 205 481-9860 710 Glenn Road Fax: 205 481-9891 **Bonnie Palmer**

cepts. After the camp, they applied what they learned through hands-on school, advertised the event, and coordinated pickup and dropoff times. of hope, saying 'I can make a difference," said Bonnie Palmer, Westhill education camp that focused on conservation, reuse, and recycling conwrote and performed plays encouraging community members and class-In addition, they worked with cafeteria employees to purchase reusable interaction. "We wanted the students to leave the project with feelings recycling program in the school, and a cafeteria waste reduction effort. products, rather than disposable ones. They also designed posters and Elementary school teacher. Students attended a 3-day environmental activities including a community newspaper drive, an aluminum can for solid waste generation, as well as promote student/community The students encouraged citizens to bring old newspapers to the individual and community awareness and responsibility The multiyear program was designed to increase

English and math skills. The town now has less litter, and the students can understand and appreciate the positive impact of their Through these activities, the students management, established close ties with increased their awareness of solid waste the community, and strengthened their efforts on the environment.

braces and cross-strung nylon line to prevent seagulls, which scavenge at landfills, from destroying the office roof, saving the county more than said. Another group created a structure from wood \$12,000 in repair costs.

By participating in the projects, students gained hands-on knowledge about landfill operations while acquiring communication, design, and

critical thinking skills. "It's amazing to see the ideas students produce

when they're challenged," Williams said.

Dan Williams, Landfill Manager Calvert County Bureau Phone: 410 326-0210 Lusby, MD 20657 Fax: 410 586-9461 of Solid Waste P.O. Box 1330 Contact:





Waste Inventions: Students **Build Landfill Solutions**

Calvert Middle School—Calvert County, Maryland

their teachers and landfill employees aryland middle school students attended a camp, then worked with

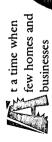
to solve various problems at their local landfill.

long summer camp where students studied environmental issues. At the end of the camp, landfill manager Dan Williams gave the kids a tour of the land-The project, which lasted for several years, included a preparatory weekfill, identified several problems at the site, and asked

strange—it had wings—but it worked," Williams students to devise reasonable solutions. Over the next school year, the students worked to solve the landfill—made of an old boat trailer, scrap lumber, and used netting. "The thing looked their assigned problem. Each year a different the landfill. One year, students designed and assembled a "wind-catcher"—a contraption to catch loose paper and other debris from solution using only materials they found at class attended camp, received a new challenge, and designed and manufactured a

Real World' Recycling

Winston Middle School—Winston, Oregon



impact on local businesses' waste man-Middle School helped make a lasting were recycling in Winston, Oregon, the eighth-grade class at Winston agement efforts.

companies. A town Earth Day event culminated the project, well as current and potential costs and savings, to the years, they performed 20 waste audits for interested ings, which included assessments of waste losses as lobby for community solid waste reduction. In 2 companies, examining trash, weighing recyclable opportunities. The students presented their findmaterials, and noting potential waste reduction tions to the school board and city council to The students made recycling presenta-



insight on environmental concerns in the corporate world. "Many of the students who excelled in performing waste audits were not strong acadeallowed students to recognize their individual talents outside the classmic students," said Terri Peterson, project coordinator. "This project room, in a real-world atmosphere."

South East Douglas, Room 220 Reduction and Recycling Douglas County Waste Roseburg, OR 97470 Phone: 541 440-4350 Terri Peterson

Winston Middle School Winston, 0R 97493 Jean Robertson

Future Homemakers Make a Difference

Rutledge High School—Rutledge, Tennessee

ecognizing a need for increased solid waste education

Sutledge High School Rutledge, TN 37861 Phone: 423 828-3822 Barbara Morgan P.O. Box 38

started a progressive solid waste education program in 1992 that continues today.

Rutledge High School in Rutledge, Tennessee,

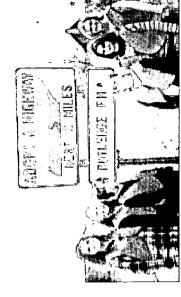
n its school and community, the Future Homemakers of America (FHA) club at Students worked with a local company to design

reuse. Others organized and used a curriculum with videos and activities schools, grocery stores, and restaurants. Some students wrote articles for the local county paper about solid waste management issues, such as oil sentations to local civic organizations and practiced what they taught by litter prevention, recycling, sorting, and composting, for distribution at to teach fellow students and those with special needs about solid waste Earth," and "Earth Day Every Day." They also designed informational pamphlets, flyers, and placemats to promote solid waste issues such as management. Finally, the students made solid waste management preadopting a 2-mile stretch of Highway 11W, which they cleaned four billboards with environmental messages such as "Help our Mother times a year.

children participated in the program, they wanted recycling bins at home," participating in the community. "Several parents have told me after their entire community, and students learned the importance of recycling and As a result of the program, solid waste awareness increased within the said Barbara Morgan, the

FHA teacher sponsor and project coordinator.

ers and employees offered





ights, Camera, ... Recycling!

Bishop O'Dowd and Castro Valley High Schools— Alameda County, California



ecognizing that waste educamost solid

tional materials are geared for a younger two Alameda County, California, high schools joined forces to produce their audience, students and teachers from own solid waste educational video.

tional organizations worked together to produce and volunteers from local media and educa-Castro Valley high schools, their teachers, Students from Bishop O'Dowd and

the county's recycling facilities.

Curry Hyde, Program Manager Davis Street Education Center San Leandro, CA 94577 Phone: 510 563-4282 Fax: 510 563-4210 2615 Davis Street Contact:

discussion and suggested activities, has helped to generate student, faculbecome part of a presentation given to high school students and visitors to the Davis Street Education Center, which is located next to one of chasing and disposal behaviors. The video, combined with a followup script for the video and acted in a series of scenes that addressed purty, and staff awareness for solid waste management issues. It also has designed to appeal to high school students. The students wrote the 100% Waste Free, an educational video with an important message

ence by reducing, reusing, recycling, and comgenerate," said Curry Hyde, program managthink about how they can each make a differposting to reduce the amount of trash they school students to see real situations, which they encounter in their everyday lives, and "Our goal for the video was for high er at the Davis Street Education Center.



Environmental Warriors' Encourage Recycling

Waterford High School—Waterford, Connecticut



fer hearing an inspiring speech about School embarked on a year-long service-learning tal issues, juniors and seniors at Waterford High mission. They improved their school's recycling

Joy Gaughan

Waterford, CT 06385-2894 Waterford High School Phone: 860 437-6956 20 Rope Ferry Road Fax: 860 447-7928

Connecticut, town recycling program's brochure.

gram, and assisted in redesigning the Waterford,

program, implemented a new composting pro-

To improve recycling at their school, the students partnered with mentally disabled peers to assess and redesign paper, metal, glass, and plastic items can be recycled. their current program, implementing changes and could better educate local residents about which ty and newspapers and cafeteria scraps from the brochure more attractive, in the hope that they They also collected leaves from the communischool for their composting program. Finally, they attempted to make the town's recycling collecting a greater volume of recyclables.

"Some students became environmental warriors, stressing the need to think globally and act locally," said Justin Trager, the Waterford High Learning Through Service Program waste, composting, energy use, recycling education, and the skills and knowledge of mentally disabled students. In addition to an indepth knowledge of the town's recycling program, these students learned about solid involved in recycling—even teachers." According to the students' teacher, Joy Gaughan, the students coordinator. "They made sure that everyone got teaching family members the importance carried these practices into their homes, of solid waste responsibility.

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Elementary School

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Cooperative Extension Agency.......14
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Composter Program......15



Middle School



High School

Battery Brigade Educates Community—"Just R-3 It!"
4-H Project
Students Graduate to Safe Disposal—
Montgomery County, Maryland Household
Hazardous Waste Collection





From Paper to Flowerpots

Thayer County Cooperative Extension Agency Hebron, Nebraska

s part of a school enrichment program promoting which they gave to "adopted grandparents" volunteerism, first- through sixth-grade stuflowerpots from recycled-content paper, dents in Nebraska learned how to make at area elder care communities.

Thayer County Cooperative 225 North Fourth Street Phone: 402 768-7212 **Crystal Fangmeier** Extension Agency Hebron, NE 68370 Fax: 402 768-7213 Contact:

participated. First, they learned about the concepts of recycling and reuse. classrooms at public, private, and parochial schools in a three-county area Then, with shredded paper from a local hospital, they created paper pulp. Using little cups as a mold, they shaped the paper pulp into starter pots, ents. The students were encouraged to tell the recipients how they made let them dry for a week, and planted flowers for their adopted grandpar-3 years ago to educate children that "just because you throw something away, that doesn't mean it's gone." More than 100 students from six the pots and to talk about recycling with them. Cooperative Extension Agency developed the program Crystal Fangmeier of the Thayer County

tinued to reduce paper waste by coltold Ms. Fangmeier how they conyear, but also to form a connection with an older only reduce the amount of paper thrown away each using less paper, or recycling the This ongoing project enabled the students to not generation. After the program, kids oring their own wrapping paper, . paper they used.



Working With Worms

Earthworks' Junior Master Composter Program **Grapevine**, Texas

Master Composter

he Earthworks Junior Program is teaching

Phone: 817 424-0540 Ranger, TX 76470 Route 1, Box 64 Contact: dren's awareness of the positive role they can play in waste reduction at home and at school through composting. They also are learning how the goal of the Junior Master Composter Program is to increase chilworms can help them compost organic materials, through a process percent of the waste stream is organic. Inspired by that fact, cling. According to a Texas Governor's Report, up to 70 to spread the word about composting and organic recyyouth in Grapevine, Texas, and throughout the South known as "vermicomposting."

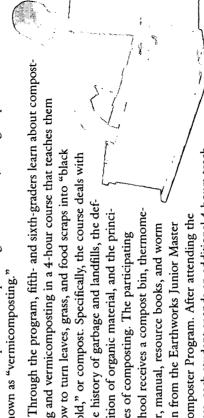
ing and vermicomposting in a 4-hour course that teaches them ing parents and neighbors to compost yard trimmings or workclass, each student spends an additional 4 hours teachhow to turn leaves, grass, and food scraps into "black gold," or compost. Specifically, the course deals with the history of garbage and landfills, the definition of organic material, and the princischool receives a compost bin, thermome-Composter Program. After attending the ter, manual, resource books, and worm bin from the Earthworks Junior Master ples of composting. The participating

schools in Texas and Kansas. Additional programs are now under devel-Program, funded by eight grants, has reached 10,000 students at 125 Over the past 3 years, the Earthwork's Junior Master Composter opment nearby in Missouri, Louisiana, and Oklahoma.

receive their Junior Master Composter certificate, students must commit

ing with other students at school composting demonstration sites. To

to teaching at least two others about the fundamentals of composting.



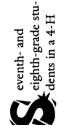
CV





From 4-H to 3 R's

4-H CAPITAL Program Austin, Texas



munity about the "three R's"—reduce, reuse, and recycle—through workshops, a display, a teaching their peers and others in the comdents in a 4-H afterschool program in Austin, Texas, are video, and a Web site.

Fravis County Agricultural Phone: 512 473-9600 **Extension Service** 1600 B Smith Road Austin, TX 78722

After learning about reduction, reuse, and recycling, the teens decided incorporate the "three R's" and then promoted it to their peers at other to spread the word. They redesigned their own 4-H curriculum to

4-H clubs in El Paso, Texas. The Austin experimentation. Magnifying glasses and nents of the material. More recently, the munity, setting up a display of compostyouth then took their ideas to the commine the temperature of a compost pile thermometers allowed people to deteryouths wrote and acted in a 10-minute video promoting reduction, reuse, and and get a close-up look at the compoeducation center to help visitors learn about composting through hands-on recycling activities, which is shown ing bins at a nearby environmental

throughout the local school system. The students also researched, wrote, designed, and learned how to create a Web site, which will promote the "three R's" worldwide.

ticipation in the program has "increased their awareness of environmenthe environment. Lillianne Goeders, the project coordinator, finds parpride and accomplishment while learning the importance of protecting Through this ongoing program, students have developed a sense of tal issues and allowed them to see a connection to their own lives."





Recycling Games Storm Drains and

Roseville Middle School Student Initiative Little Canada, Minnesota

n conjunction with their school's Science

Roseville Area Middle School

Dina Bizzavo

hazardous materials in their community through an to teach waste management and proper disposal of voluntarily working with both the young and old Middle School in Little Canada, Minnesota, are seventh- and ninth-grade students at Roseville Retired Senior Volunteer Program of St. Paul, Club and the ongoing project.

15 East County Road 82 Little Canada, MN 55117 Phone: 612 482-5280 Fax: 612 482-5299

with warnings to remind residents that dumping used motor oil or other local wildlife and water quality. The students filled out the permit paper-On their own initiative, the students decided to stencil storm drains household hazardous wastes down the drains poses a serious threat to work, researched safety requirements, determined the type of paint allowed, and bought the appropriate stencils. To

wrote and distributed flyers. Senior citizens helped them stencil the storm drains and continue to prothey teach children in elementary schools and dayvide advice and hands-on assistance for other progame that involved making model recycling bins, inform the community of their activity, they also about recycling, the students created a recycling grams. In addition, to educate younger children care centers how to put the appropriate items in compost containers, and thrift-store bags. Now, the correct containers using words and pictures.

community has benefitted from increased recycling have learned about environmental issues and gov-Through their leadership, these students ernmental process, while they gained hands-on skills and intergenerational understanding. The and decreased contamination of the watershed.







Slick Students Tackle Oil

4-H Club Recycling Efforts Recycling

3,200-member (1) ince 1991, the

112 Court Avenue, Room 102

Sevierville, TN 37862

Phone: 423 453- 3695

Fax: 423 453-6830

Glenn K. Turner, Extension

moting recycling, often with positive results. local officials to reduce solid waste by pro-Sevierville, Tennessee, has worked with

gkturner@cru.gwutk.edu

event and distributed bookmarks at local businesses describing to customers school students, through the 4-H Honor Club, provided local leadership in used oil. The 4-H club volunteered logistical support for the public kickoff tion initiative. They asked parents and neighbors to put used oil from autodumping it down a drain or on the ground where it would leak into soil or Project ROSE (Recycled Oil Saves Energy), a national oil recycling educanew countywide oil recycling opportunities. Select junior and senior high paign, and radio spots recorded by 4-H members encouraged recycling. waterways. Local newspapers supported the 4-H public awareness cam-With the help of the students, oil recycling efforts have increased from mobiles and lawnmowers into containers for recycling, rather than and aluminum cans and added containers for collecting ,200 to 25,000 gallons per year in the past 5 years. ber of sites for recycling plastic bottles, newspapers, In 1993, Sevier County expanded the num-



recycling program's success to education by County officials attribute the ongoing oil Sevier County 4-H programs. According to Glenn Turner, 4-H leader and Agricultural They can be involved in local issues, and Extension service agent, club members earned that "they can have an impact. they are making a difference."

Educates Community Battery Brigade

Seminole and Volusia County, Florida "Just R-3 It!" 4-H Project

community about

"Battery Brigade" of 13- to 18-year-old students is educating the

the importance of using rechargeable batteries and recycling batteries, as part of an ongoing "Just R-3 It!" 4-H project in two Florida counties.

recycling batteries properly. For fairs and other batteries are made, the potential environmental impacts of various types of battersumers of batteries for toys and portable ies, and the importance of disposing of/ Knowing that children are large congram to educate youth about the way games, club leaders designed the pro-

Phone (Wilkens): 407 323-2500, Ext. 5557

Phone (Morris): 904 822-5778 Fax: 407 330-9593 (Seminole)

Fax: 904 822-5767 (Volusia)

Seminole and Volusia County 4-H Shelda Wilkens/Marcia Morris

250 West County Home Road

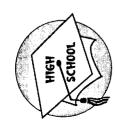
They staffed this exhibit at least four or five times a year, distributed people's questions about recycling. The youth also put together a leaders to develop an exhibit promoting reduction, reuse, and recycling. information about the county recycling program, and answered calendar using text and artwork from a poster and essay contest they sponsored. The calendar was distributed throughout the schools in the two counties.

community events, the youth worked with the 4-H

encing others to make environmentally conscientious to their peers and adults in the community. They develsolutions beyond their own recycling habits by influstewardship, but they also are promoting these concepts Not only are the students learning about environmental oped a sense of how they can create environmental decisions as well.







Students Graduate to Safe Disposal

Montgomery County, Maryland Household Hazardous Waste Collection ontgomery County, Maryland, student volunteers are learning about solid waste

issues and earning credits toward graduation. This ongoing program also helps keep substantial quantities of household hazardous waste out of the waste stream.

On household hazardous waste collection days, unused paint, left-over household chemicals, and other materials that can-

volunteers participating in the household hazand June 1998 about 20 percent of the 60 of these materials. Between July 1997 collection, and allow for safe disposal possible, reduce the cost of frequent unteers provide necessary logistical not be disposed of in the trash are accepted for disposal at the county tors handle donated materials, volsupport to make these collections transfer station and other satellite locations. Although only contrac-

Recycling Hotline: 301 590-0046

Fax: 301 590-2801

Phone: 301 590-2818

Recycler/Composter Volunteer Program

Derwood, MD 20855-1421

18410 Murncaster Road

Montgomery County Master

Susanne Brunhart, Manager

ardous waste collections were students. These volunteers directed 250 to 665 cars per day.

event." After seeing how much household hazardous waste is collected for disposal in a single day, students began to understand the need for source reduction-buying only the amount they will use or selecting a less toxic required in order to make a significant contribution to the success of the alternative. In order to meet a graduation requirement for service hours, Susanne Brunhart. "No prior experience or background knowledge is County's Master Recycler/Composter Volunteer Program Manager, "This is an excellent opportunity for students," said Montgomery the students wrote a statement to reflect on what they learned.







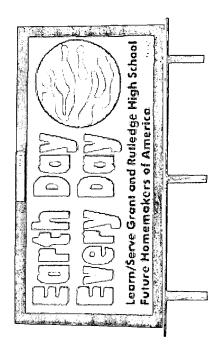
or more information about service-learning programs, grants, and ideas, contact your state's community service commission or education department. The following national organizations also are involved in coordinating or funding service-learning projects.

Corporation for National Service

1201 New York Avenue, NW. Phone: TDD 202 565-2799 Washington, DC 20525 Phone: 202 606-5000

Web site: www.nationalservice.org

and community organizations that engage nearly 1 million youth America, supports service-learning programs in schools, colleges, Americans of all ages and backgrounds to serve their communities and the nation. One of its grant programs, Learn and Serve Congress in 1993 to provide a broad range of opportunities to in the areas of education, public safety, the environment, and The Corporation for National Service was chartered by other human needs.





Learn and Serve America National Service-Learning Clearinghouse

Jniversity of Minnesota

Department of Work, Community, and Family Education

1954 Buford Avenue, Room R-460

St. Paul, MN 55108

Phone: 800 808-SERV (800 808-7378)

Fax: 612 625-6277

Web site: www.nicsl.coled.umn.edu

Service and developed and maintained by the National Youth Leadership Council with the University of Minnesota, is designed to help educators This informational Web site, funded by the Corporation for National and community agencies develop and expand service-learning opportunities for all youth. More than 1,100 Learn and Serve

America grantees are included as well as state agencies, articles on service-learning, and a contacts, community-based grant-making

bibliography of service-learning issues.

National 4-H Council

7100 Connecticut Avenue Chevy Chase, MD 20815 Phone: 301 961-2800 Fax: 301 961-2894

Web site: www.fourhcouncil.edu

program offers seed grants specifically to help children promote reduction, reuse, and recycling through county cooperative extension offices in Southern California; Orlando, Florida; Itasca, Illinois; Bridgeport, informal network of youth across the country involved with environ-Tennessee; and Irving/Dallas, Texas. The council also is creating an to help youth address local environmental issues. The "Just R-3 It!" offers grants, curricula, and other resource and reference materials The 4-H Environmental Stewardship Program mental projects.



Girl Scouts of the U.S.A.

Phone: 800 GSUSA4U (478-7248) Web site: www.girlscouts.org New York, NY 10018-2798 National Headquarters 420 Fifth Avenue

Girl Scouts age 5 to 17 and their leaders are involved in environmencommunity cleanups, making recycled paper, or promoting clean water tal activities in their communities. All Girl Scouts can earn recognition for activities such as learning about landfills, recycling, participating in and conservation.

Boy Scouts of America

325 West Walnut Hill Lane 30y Scouts of America Vational Office

Irving, TX 75015-2079 P.O. Box 152079

Phone: 972 582-2000

Web site: www.bsa.scouting.org

collaborate on community projects with local, state, or federal environconservation program, scouts learn about the use of natural resources, become citizens that treat their environment responsibly. Through a mental organizations, and receive awards for projects that inform the Naturally involved in many outdoor activities, Boy Scouts strive to public about the importance of environmental protection.



Boys & Girls Clubs of America

230 West Peachtree Street, NW. Atlanta, GA 30309

Phone: 404 815-5700

Web site: www.bgca.org

become responsible citizens and leaders. Programs in the clubs' outdoor and environmental education program help youth develop an awareness, The Boys & Girls Clubs of America help youth from all backgrounds, appreciation, and knowledge of the environment through activities in especially disadvantaged children, develop the qualities they need to the club or in natural settings.

Take A Class Outdoors: A Guidebook for **Environmental Service Learning**

National Dropout Prevention Center

College of Health, Education, and Human Development

Clemson University

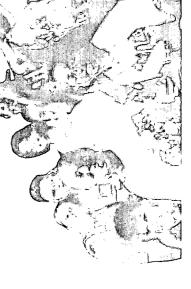
209 Martin Street

Clemson, SC 29634-0726

Phone: 864 656-2599

Web site: www.dropoutprevention.org

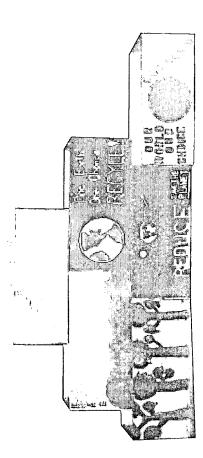
service-learning and its positive effect on students, this guide includes sec-Designed to inform educators and administrators about environmental tions on starting a program, adapting curricula, obtaining funding, and involving the community. Published in 1998, the book contains detailed project ideas for various age groups and offers success stories from other service-learning programs.



More Ideas

ideas for your own school-based or community service-learning project. Hopefully, our service-learning guide has provided you with some Here are a few more great project ideas:

- that picks up recyclables or coordinates household hazardous collection Multifamily Dwelling Collection Days—start a volunteer program days in apartment complexes or other multifamily residential areas.
- Vehicles for Seniors—provide seniors with transportation to do their recycling or establish a weekly pick-up system within senior citizen communities.
- Cafeteria Recycling/Sorting Days—help your school become more environmentally sound by starting a cafeteria recycling/sorting program for packaging or food waste.
- Used Clothing or Furniture/Collection Days—start a neighborhood shelters. Design and distribute flyers to encourage neighborhood parcampaign and collection system and donate all goods to homeless ticipation.
- Moving Days—establish a volunteer service aimed at helping people who are moving into or out of your neighborhood locate recycling facilities and properly dispose of household hazardous waste.
- senior citizens to give talks to local citizen groups and schools about the importance of safely managing solid and household hazardous waste. Senior Partners—start a volunteer program that pairs youth with



solid waste educational experience through a service-learning project in your school or community? Are you participating in a

Or would you like to know more about service-learning and solid waste?

Contact:

We'd like to hear from you!

U.S. Environmental Protection Agency Office of Solid Waste (MC: 5305W) Washington, DC 20460





U.S. Department of Education

Office of Educational Research and Improvement (OERI)

National Library of Education (NLE)

Educational Resources Information Center (ERIC)



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